

=====

Sequence Listing was accepted.

If you need help call the Patent Electronic Business Center at (866)
217-9197 (toll free).

Reviewer: Durreshwar Anjum

Timestamp: Fri May 11 12:15:25 EDT 2007

=====

Application No: 10588274

Version No: 1.1

Input Set:**Output Set:**

Started: 2007-05-11 12:15:18.334
Finished: 2007-05-11 12:15:18.434
Elapsed: 0 hr(s) 0 min(s) 0 sec(s) 100 ms
Total Warnings: 12
Total Errors: 0
No. of SeqIDs Defined: 16
Actual SeqID Count: 16

ErrCode	Error Description
W 213	Artificial or Unknown found in <213> in SEQ ID (4)
W 213	Artificial or Unknown found in <213> in SEQ ID (5)
W 213	Artificial or Unknown found in <213> in SEQ ID (6)
W 213	Artificial or Unknown found in <213> in SEQ ID (7)
W 213	Artificial or Unknown found in <213> in SEQ ID (8)
W 213	Artificial or Unknown found in <213> in SEQ ID (9)
W 213	Artificial or Unknown found in <213> in SEQ ID (10)
W 213	Artificial or Unknown found in <213> in SEQ ID (11)
W 213	Artificial or Unknown found in <213> in SEQ ID (12)
W 213	Artificial or Unknown found in <213> in SEQ ID (13)
W 213	Artificial or Unknown found in <213> in SEQ ID (14)
W 213	Artificial or Unknown found in <213> in SEQ ID (15)

SEQUENCE LISTING

<110> Evotec NeuroSciences GmbH

<120> DIAGNOSTIC AND THERAPEUTIC USE OF KCNE4 PROTEIN FOR
NEURODEGENERATIVE DISEASES

<130> 043098wo Me/FM

<140> 10/588,274

<141> 2006-08-04

<150> PCT/EP2005/050465

<151> 2005-02-03

<160> 16

<170> PatentIn Ver. 2.1

<210> 1

<211> 170

<212> PRT

<213> Homo sapiens

<400> 1

Met	Leu	Lys	Met	Glu	Pro	Leu	Asn	Ser	Thr	His	Pro	Gly	Thr	Ala	Ala
1				5					10					15	

Ser	Ser	Ser	Pro	Leu	Glu	Ser	Arg	Ala	Ala	Gly	Gly	Gly	Ser	Gly	Asn
			20				25						30		

Gly	Asn	Glu	Tyr	Phe	Tyr	Ile	Leu	Val	Val	Met	Ser	Phe	Tyr	Gly	Ile
	35						40					45			

Phe	Leu	Ile	Gly	Ile	Met	Leu	Gly	Tyr	Met	Lys	Ser	Lys	Arg	Arg	Glu
	50					55					60				

Lys	Lys	Ser	Ser	Leu	Leu	Leu	Leu	Tyr	Lys	Asp	Glu	Glu	Arg	Leu	Trp
65				70					75					80	

Gly	Glu	Ala	Met	Lys	Pro	Leu	Pro	Val	Val	Ser	Gly	Leu	Arg	Ser	Val
			85					90						95	

Gln	Val	Pro	Leu	Met	Leu	Asn	Met	Leu	Gln	Glu	Ser	Val	Ala	Pro	Ala
		100					105						110		

Leu	Ser	Cys	Thr	Leu	Cys	Ser	Met	Glu	Gly	Asp	Ser	Val	Ser	Ser	Glu
		115				120						125			

Ser	Ser	Ser	Pro	Asp	Val	His	Leu	Thr	Ile	Gln	Glu	Glu	Gly	Ala	Asp
	130					135					140				

Glu	Glu	Leu	Glu	Glu	Thr	Ser	Glu	Thr	Pro	Leu	Asn	Glu	Ser	Ser	Glu
145				150					155						160

Gly	Ser	Ser	Glu	Asn	Ile	His	Gln	Asn	Ser						
			165						170						

<210> 2
<211> 1204
<212> DNA
<213> Homo sapiens

<400> 2
agcagaagaa ccctcttgga ctggacgatt tgggaattca aaacttggga caaactgtca 60
gccttgcccc tgctgtggag gcagcctcaa tgctgaaaat ggagcctctg aacagcacgc 120
accccggcac cgccgcctcc agcagccccc tggagtcccg tgcggccggg ggccggcagcg 180
gcaatggcaa cgagtacttc tacattctgg ttgtcatgtc cttctacggc attttcttga 240
tcggaatcat gctgggctac atgaaatcca agaggcggga gaagaagtcc agcctcctgc 300
tgctgtacaa agacgaggag cggctctggg gggaggccat gaagccgctg cccgtggtgt 360
cgggcctgag gtcggtgcag gtgcccttga tgctgaacat gctgcaggag agcgtggcgc 420
ccgcgctgtc ctgcaccctc tgttccatgg aaggggacag cgtgagctcc gagtccctct 480
ccccggacgt gcacctcacc attcaggagg agggggcaga cgaggagctg gaggagacct 540
cggagacgcc cctcaacgag agcagcgaag ggtcctcgga gaacatccat cagaattcct 600
agcacccccg ggacctctgc ggggtggctcc atcagccagc aaccttagag agaggaaaga 660
cagttttcaa gtgtctggtt tcactttcac agtgcggtctg ccactttgaa gagaccttg 720
gtaaaccctt gattcggggg ggggtggggg actaggctca gccggaacca gcacctcaa 780
ggagtccggg aggtgcctgt ggtttgcacc caccactgaa aaagccgcgg agatgcgcag 840
cgcgtacact gactttgggg cctgggtgtt ggggttctga tcagaatttg gcgggatgat 900
atgcttgcca ttttctcact ggatgccctg ggtagctcct gcagggtctg cctgttccca 960
gggctgccga atgcttagga cacgctgaga gactagtgtg gatttgctat tttgcctaga 1020
gctttgtcct tctagatctg attggctgta agtatctcta ctgtgtacct gtggcattcc 1080
ttcacagtgg gttacaagct tcttttggat tagaggggga tttttgatgg gagaaagctg 1140
gagatctgaa ccagagccat ttgcacacta aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 1200
aaaa 1204

<210> 3
<211> 193
<212> DNA
<213> Homo sapiens

<400> 3
tagtgtgcaa atgggctggg ttcagatctc cagctttctc ccatcaaaaa tccccctcta 60
atccaaaaga agcttgtaac ccactgtgaa ggaatgccac aggtacacag tagagatact 120
tacagccaat cagatctaga aggacaaagc tctaggcaaa atagcaaatc acaactagtc 180
tctcagcgtc acc 193

<210> 4
<211> 19
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:primer for the
human KCNE4 gene

<400> 4
tcatcccgcc aaattctga

<210> 5

<211> 19
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:primer for the
human KCNE4 gene

<400> 5
ggtttgcacc caccactga 19

<210> 6
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:primer for the
human cyclophilin B gene

<400> 6
actgaagcac tacgggcctg 20

<210> 7
<211> 19
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:primer for the
human cyclophilin B gene

<400> 7
agccgttggt gtctttgcc 19

<210> 8
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:primer for the
human ribosomal protein S9 gene

<400> 8
ggtcaaattt accctggcca 20

<210> 9
<211> 22
<212> DNA
<213> Artificial Sequence

<220>

<p><223> Description of Artificial Sequence:primer for the human ribosomal protein S9 gene</p> <p><400> 9 tctcatcaag cgtcagcagt tc</p>	22
<p><210> 10 <211> 19 <212> DNA <213> Artificial Sequence</p> <p><220> <223> Description of Artificial Sequence:primer for the human beta-actin gene</p>	
<p><400> 10 tggaacgggtg aaggtgaca</p>	19
<p><210> 11 <211> 19 <212> DNA <213> Artificial Sequence</p> <p><220> <223> Description of Artificial Sequence:primer for the human beta-actin gene</p>	
<p><400> 11 ggcaagggac ttcctgtaa</p>	19
<p><210> 12 <211> 20 <212> DNA <213> Artificial Sequence</p> <p><220> <223> Description of Artificial Sequence:primer for the human GAPDH gene</p>	
<p><400> 12 cgtcatgggt gtgaaccatg</p>	20
<p><210> 13 <211> 21 <212> DNA <213> Artificial Sequence</p> <p><220> <223> Description of Artificial Sequence:primer for the human GAPDH gene</p>	
<p><400> 13 gctaagcagt tgggtggtgca g</p>	21

<210> 14
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:primer for the
human transferrin receptor TRR gene

<400> 14
gtcgcctgggc agttcgtgat t 21

<210> 15
<211> 23
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:primer for the
human transferrin receptor TRR gene

<400> 15
agcagttggc tgttgtagct ctc 23

<210> 16
<211> 513
<212> DNA
<213> Homo sapiens

<400> 16
atgctgaaaa tggagcctct gaacagcacg caccgccgca ccgccgcctc cagcagcccc 60
ctggagtccc gtgcggccgg tggcggcagc ggcaatggca acgagtactt ctacattctg 120
gttgtcatgt ccttctacgg cattttcttg atcggaatca tgctgggcta catgaaatcc 180
aagaggcggg agaagaagtc cagcctcctg ctgctgtaca aagacgagga gcggctctgg 240
ggggaggcca tgaagccgct gcccggtggtg tcgggcctga ggtcggtgca ggtgcccttg 300
atgctgaaca tgctgcagga gagcgtggcg cccgcgctgt cctgcaccct ctgttccatg 360
gaaggggaca gcgtgagctc cgagtcctcc tccccggacg tgcacctcac cattcaggag 420
gagggggcag acgaggagct ggaggagacc tcggagacgc ccctcaacga gagcagcgaa 480
gggtcctcgg agaacatcca tcagaattcc tag 513